



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/538,970	06/14/2005	Gerhard Heitze	HM-641PCT	9495
40570	7590	12/13/2007		
FRIEDRICH KUEFFNER 317 MADISON AVENUE, SUITE 910 NEW YORK, NY 10017			EXAMINER LANDRUM, EDWARD F	
			ART UNIT 3724	PAPER NUMBER
			MAIL DATE 12/13/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/538,970

Applicant(s)

HEITZE ET AL.

Examiner

Edward F. Landrum

Art Unit

3724

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 November 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 5-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 5-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 5, 6, and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mckee (European Publication No. 0075448).

Mckee teaches (see Figure 1) a crank shear comprising two pairs of blades (4 and 5) mounted on blade holders (2 and 3), wherein the blade holders (2 and 3) are supported opposite each other in a vertical plane in a pair of eccentric shafts (circular portion found in the middle of both 2 and 3). The eccentric shafts are pivoted on levers (6 and 20) in double joint mechanisms (7 and 21). The blade holders (2 and 3) have many pairs of axially parallel bearing surfaces and radial projections (to the left of blade 4, between blades 4 and 5, and after blade 5; see Figure 1). The upper blade holder (2) has inner facing bearing surfaces within a recess that the blades (4 and 5) are arranged on. The lower blade holder (3) are arranged on outer, oppositely directed bearing surfaces of a narrow projection (projecting attachment portion found between the blades on the lower blade holder) oriented towards the recess.

When support levers (6 and 20) are spread to form an approximately 90 degree angle an upper piston rod device (11) attached to the double joint mechanism (7) is fully extended and a lower piston rod device (25) attached to the double joint mechanism

(21) is retracted. When support levers (6 and 20) are brought together to become substantially parallel to the strip of material being cut (30) the upper piston rod device (11) attached to the double joint mechanism (7) is fully retracted and the lower piston rod device (25) attached to the double joint mechanism (21) is extended. In this position the upper and lower double joint mechanisms (7 and 21) extended approximately linearly with each other (see Figure 1). Furthermore Mckee teaches (Pg. 6, lines 2—27; Pg. 7, lines 1-6) the upper blade carrier (2) being able to be swung to a position outside of its normal shearing position to make it easier to replace the blades (4 and 5).

Mckee teaches all of the elements of the current invention as stated above except the upper blade recess being curved and the projection being formed of a single piece with the lower blade holder.

It would have been an obvious matter of design choice to modify Mckee to have the recess the inner blades were in curved, since Applicant has not disclosed that having a curved recess in the upper blade holder solves any stated problem or is for any particular purpose and it appears that the shearing device would perform equally well any shape recess provided the recess sufficiently supported the cutting blades.

Furthermore, it has been held the use of a one piece construction instead of structure formed of more than one piece would be merely an obvious engineering choice. Therefore it would have been an obvious matter of design choice to modify Mckee by having the projection be formed as one piece with the lower blade holder, since applicant has not disclosed that having the projection being formed on the lower

Art Unit: 3724

blade holder solves any stated problem or is for any particular purpose and it appears the clamps would perform equally well with or without the projection being formed with the lower blade holder.

3. Claims 7 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mckee in view of Fries (U.S Patent No. 3,643,537).

Mckee teaches all of the elements of the current invention as stated above except the blade holders capable of being moved away from the material being cut to allow passage of the material. Mckee further fails to teach the lower pair of blades being arranged only on outer, oppositely directed bearing surfaces.

Fries teaches (Col. 1, lines 1-9) a pair of shearing arms capable of being rotated out of position for the purpose of executing a variably adjustable number of miss-cuts between effective cutting operations.

It would have been obvious to have modified Mckee to incorporate the teachings of Fries to allow the cutters to be rotated about the eccentric shafts to non-cutting positions for the purpose of allowing material to be passed through the machine without being cut. This would allow the shearing machine to shear variable length work pieces without having to turn off the entire machine or take both of the cutting heads out of the machine.

Response to Arguments

4. Applicant's arguments filed 11/1/2007 have been fully considered but they are not persuasive.

Applicant has provided no criticality to how the blades are attached to the crank shear besides that the proven effective blade guard clamp cannot be mounted as well (Pages 2 and 3). Applicant has failed to disclose what this proven effective blade guard clamp is or how the proven effective blade guard clamp relates to the instant invention and why this blade guard clamp cannot be attached to the blade holders of prior art shears. Is this proven effective blade guard clamp better than all other blade guard clamps? Why does a blade guard clamp matter in this invention? It seems that the way the blades are attached creates no novel or unexpected result over the blade attachment design of McKee. Use of such a means of blade connection in lieu of those used in previous references solves no stated problem and would be an obvious matter of design choice to those of ordinary skill in the art.

Furthermore, loosening a clamp that holds two different blades does not mean that both blades have to be replaced, therefore it is possible to exchange only one blade even though both blades are held down by a single clamp. If someone at the gym were to loosen a clamp that held multiple weights on one side of a bar, it is possible for a user to leave many of those weights on the bar if he or she only wants to switch one.

As explained above applicant's disclosure provides no criticality to the design of the cutting blade attachment arrangement and saying that the screw would take a large part of the applied force is an opinion. It appears any applied force on a blade would be directly received to a portion of the blade holder as clamped objects are usually held as to be stationary to one another.

Conclusion

Art Unit: 3724

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Elineau (U.S Patent No. 3,398,616), and Kagerhuber et al (U.S Patent No. 4,237,760) teach shearing devices that allow the blades to be positioned away from the material to be cut to allow passage of the material.

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward F. Landrum whose telephone number is 571-272-5567. The examiner can normally be reached on Monday-Friday 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Boyer Ashley can be reached on 571-272-4502. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3724

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EFL

11/27/2007



BOYER D. ASHLEY
SUPERVISORY PATENT EXAMINER